

```

15: /cgn2_6/podata/1/pupaa/us60_pubcomb.pep:*
16: /cgn2_6/podata/1/pupaa/us10_new_pub.pep:*
17: /cgn2_6/podata/1/pupaa/us60_new_pub.pep:*
18: /cgn2_6/podata/1/pupaa/us60_pubcomb.pep:*

```

RESULT 1						
US-09-989-981A-4						
; Sequence 4, Application US/09989981A						
; Publication No. US20030049730A1						
GENERAL INFORMATION:						
; APPLICANT: Hobbs, Helen H.						
; APPLICANT: Shan, Bei						
; APPLICANT: Barnes, Robert						
; APPLICANT: Tian, Hui						
; APPLICANT: Tularik Inc.						
APPLICANT: Board of Regents, The University of Texas System						
TITLE OF INVENTION: ABCG5 and ABCG8: Compositions and Methods of Use						
FILE REFERENCE: 018781-007320US						
CURRENT APPLICATION NUMBER: US/09-989-981A						
CURRENT FILING DATE: 2002-07-23						
PRIOR APPLICATION NUMBER: US 60/252,235						
PRIOR FILING DATE: 2000-11-20						
ALIGNMENTS						
18	555	18.7	655	14	US-10-090-455-5	Sequence 10,
19	651.5	18.6	655	9	US-09-866-866A.10	Sequence 5, /
20	639	18.3	638	13	US-09-866-866A.27	Sequence 27, /
21	638	18.3	674	14	US-10-090-455-4	Sequence 10, /
22	638	18.3	674	16	US-10-049-160-10	Sequence 10, /
23	630.5	18.0	663	13	US-10-088-605-245	Sequence 154,
24	619	17.7	623	12	US-10-024-539-154459	Sequence 176,
25	615.5	17.6	695	12	US-10-024-539-178182	Sequence 17, /
26	605	17.3	599	15	US-10-210-120-14	Sequence 14,
27	601	17.2	819	12	US-10-425-114-5421	Sequence 544,
28	598	17.1	1095	15	US-10-425-114-5421	Sequence 202,
29	590	16.9	545	14	US-10-083-357-1335	Sequence 133,
30	581.5	16.6	559	15	US-10-669-493-5790	Sequence 574,
31	573.5	16.4	676	15	US-10-669-493-5790	Sequence 375,
32	567	16.2	1084	12	US-10-212-539-42078	Sequence 242,
33	567	16.2	1101	12	US-10-225-114-63225	Sequence 631,
34	566.5	16.2	1049	15	US-10-669-493-15220	Sequence 1522,
35	563.5	16.1	627	14	US-10-090-455-8	Sequence 8,
36	562.5	16.1	646	13	US-10-154-432-4	Sequence 4, /
37	562.5	16.1	656	12	US-10-425-114-53846	Sequence 5388,
38	562.5	16.1	673	12	US-10-225-114-64180	Sequence 6432,
39	562	16.1	658	15	US-10-369-493-5347	Sequence 5347,
40	560.5	16.0	646	13	US-10-154-432-5	Sequence 8,
41	560.5	16.0	646	13	US-10-050-455-13	Sequence 13,
42	567.5	16.0	646	13	US-10-072-621-9	Sequence 2,
43	557.5	16.0	646	14	US-10-090-455-2	Sequence 2,
44	548	15.7	469	12	US-10-445-114-39525	Sequence 39525,
45	539.5	15.4	646	14	US-10-079-087-2	Sequence 2, /

```

; LENGTH: 672
; TYPE: PRT
; ORGANISM: Mus musculus
; FEATURE: OTHER INFORMATION: mouse ABCG6
; US-09-989-981A-4

Query Match          100.0%
Best Local Similarity 100.0%
Matches             672;
Conservative        672;
QY      1 MAEKKEKEQLWNGVVLQDPT
        ||||| | | | | | | | | |
        1 MAEKKEKEQLWNGVVLQDPT
QY      61 QVPBPBQLAQPKTPRSHSS

```

Query Match 82.5%; Score 2883.5; DB 10; Length 673;
 Best Local Similarity 81.9%; Pred. No. 2.e-266; Mismatches 1; Indels 1; Gaps 1;

Matches 551; Conservative 52; Mismatches 69; Indels 1; Gaps 1;

QY 1 MAEKKEERQLWNTVQDASQHDSPLPSSESNDSPSNTLYTYSQSNTLFRDITYQDIAS 60
 Db 1 MAGKAEERGLPKCATPDTGQDRLPNTSESSDNLSLYTYSQPNTEVRDLYQDLS 60

QY 1 RGHGKMKMKGQIWINQSPSTPOLVKCVAHVROHQDQLPNTVRETLAQMRLPRTFS 180
 Db 181 QAQRDKRVEDTVALRLRQCANTRVGNTRYRGVSGERRRSVQVQIWNPGCLLDEPT 180

QY 241 SGJGDSFTAINNLVLTSLRAKGNLVLISLHQPSDFRLFDJULLMSGTTYLGQAQM 300
 Db 241 SGLDSFTAINLVLTSLRAKGNLVLISLHQPSDFRLFDJULLMSGTTYLGQAQM 300

QY 301 VOYFTSIGHPCPYNSPADFVYDTSIDRSKEREVATEKAQSLALFLERKVQGDDFL 360
 Db 301 VOYFTSIGHPCPYNSPADFVYDTSIDRSKEREVATEKAQSLALFLERKVQGDDFL 360

QY 361 WKAZAKELNTSTHTSVSLTQDTPCGTAVELPGMIEOSTLRRQISNDRPDLING 420
 Db 361 WKAZAKELNTSTHTSVSLTQDTPCGTAVELPGMIEOSTLRRQISNDRPDLING 420

QY 421 SEACIMSLITIGFLYVGHGAKQLSMDTAFLMIGALPENWILDVSKCHERSMYYE 480
 Db 421 SEACIMSLITIGFLYVGHGAKQLSMDTAFLMIGALPENWILDVSKCHERSMYYE 480

QY 481 LEDGLYTGAGPYFAKIGLPERCAYVITYAMPIYLTNLPVPELFLHLFLWVFC 540
 Db 481 LEDGLYTGAGPYFAKIGLPERCAYVITYAMPIYLTNLPVPELFLHLFLWVFC 540

QY 541 CORTMALAASAMLPTHMSSPFCNALYNSTYLAGFMILNLUWPAWISKSLFLNCES 600
 Db 541 CORTMALAASAMLPTHMSSPFCNALYNSTYLAGFMILNLUWPAWISKSLFLNCES 600

QY 601 GLMQTOFNGHLYTTOIGNFTSIIQDMTISAMDINSHPEIYIAVILIVISGFLFLYL 660
 Db 601 GLMQTOFNGHLYTTOIGNFTSIIQDMTISAMDINSHPEIYIAVILIVISGFLFLYL 660

QY 661 LKLIKQKSIDW 672
 Db 661 LKLIKQKSIDW 672

RESULT 2
 US-09-989-981A-8
 ; Sequence 8, Application US/09989981A
 ; Publication No. US20030049730A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Hobbs, Helen H.
 ; APPLICANT: Shan, Bei
 ; APPLICANT: Barnes, Robert
 ; APPLICANT: Tularik Inc.
 ; APPLICANT: Tularik Inc.
 ; APPLICANT: Board of Regents, The University of Texas System
 ; TITLE OF INVENTION: ABCG5 and ABCG8: Compositions and Methods of Use
 ; FILE REFERENCE: 018781-007320US
 ; CURRENT APPLICATION NUMBER: US/09/989,981A
 ; CURRENT FILING DATE: 2002-07-23
 ; PRIORITY APPLICATION NUMBER: US 60/252,235
 ; PRIORITY APPLICATION NUMBER: US 60/253,645
 ; PRIORITY FILING DATE: 2000-11-28
 ; NUMBER OF SEQ ID NOS: 13
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 8
 ; LENGTH: 673
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; OTHER INFORMATION: human ABCG8 (hABCG8)
 ; US-09-989-981A-8

Query Match 82.4%; Score 2879.5; DB 14; Length 673;
 ; Sequence 7, Application US/10090455
 ; Publication No. US20030272941A
 ; GENERAL INFORMATION:
 ; APPLICANT: Chen, Hongyun
 ; APPLICANT: Le, Binh, Stephane
 ; TITLE OF INVENTION: NOVEL ABCG4 TRANSPORTER AND USES THEREOF
 ; FILE REFERENCE: 100103_406
 ; CURRENT APPLICATION NUMBER: US/10/090,455
 ; CURRENT FILING DATE: 2002-03-01
 ; NUMBER OF SEQ ID NOS: 17
 ; SOFTWARE: FASTSEQ for Windows Version 4.0.0
 ; SEQ ID NO 7
 ; LENGTH: 673
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-10-090-455-7

Best Local Similarity 81.7%; Pred. No. 5.3e-266; Matches 550; Conservative 52; Mismatches 70; Indels 1; Gaps 1; Current Application Number: US/0/415,378

QY 1 MAEKTKEBTOWNGTVIQLDAGSGLQDSLPSHSSDNSTIFTSGQSNTLEVADLTQVDIAS 60

Db 1 MAGKAABERGIPKGATPQDTGQLDRFSSSDNSNLYFTSGQPNTLEVDINTQVDIAS 60

QY 61 QYPWFESCOLAQEKLPMWHSQQSDSCELGIRNSFKRSKQNSKOMAIGSSGCGRASLUDITG 120

61 QYPWFESCOLAQEKLPMWHSQQSDSCELGIRNSFKRSKQNSKOMAIGSSGCGRASLUDITG 120

Db 121 REHGKKKGSQIWINOPSPOLVRCVAHYRQHDQDLPNUVTRELAFAQMRLPTFS 180

121 REHGKKKGSQIWINOPSPOLVRCVAHYRQHDQDLPNUVTRELAFAQMRLPTFS 180

Db 181 QADQRKVEDVIAELRQCAUTRVGNTYRQVSGERRSIGVQLLMGGQILDEPT 240

181 QADQRKVEDVIAELRQCAUTRVGNTYRQVSGERRSIGVQLLMGGQILDEPT 240

QY 241 SGIDSFAHNLTISLAKSGNLVLSIHPDSFRFLFVLMITSGEGPIVGAQM 300

241 SGIDSFAHNLTISLAKSGNLVLSIHPDSFRFLFVLMITSGEGPIVGAQM 300

Db 301 VOYFTSIGHPCPYNSNPADFYDITSDRSREREVATEVKQSLAFLFVKQVGDFFL 360

301 VOYFTSIGHPCPYNSNPADFYDITSDRSREREVATEVKQSLAFLFVKQVGDFFL 360

QY 361 WRAEKALNTSHTVSILTQDCC-GTAVELPGMIBOFSTIRROISNDRDPLTH 419

361 WRAEKALNTSHTVSILTQDCC-GTAVELPGMIBOFSTIRROISNDRDPLTH 419

Db 361 WRAETKOLBDEDTCVSESSVTPDNCPLNSPTKAVGAVOFTTIRROISNDRDPLTH 420

361 WRAETKOLBDEDTCVSESSVTPDNCPLNSPTKAVGAVOFTTIRROISNDRDPLTH 420

QY 420 GEBACTMSLIGLYYYRHKAKOSMOTAAFLMIGALIPNVILYUWSKHSERSMLY 479

420 GEBACTMSLIGLYYYRHKAKOSMOTAAFLMIGALIPNVILYUWSKHSERSMLY 479

Db 421 GABACLMSMTGFLYFGHSIOLSFMDTAALFLMIGALIPNVILYUWSKHSERSMLY 480

421 GABACLMSMTGFLYFGHSIOLSFMDTAALFLMIGALIPNVILYUWSKHSERSMLY 480

QY 480 ELEDGLYTGTGPPAKIGELBLHCAVITYAMPIMYLINRPPVPLFLHFLWLVF 539

480 ELEDGLYTGTGPPAKIGELBLHCAVITYAMPIMYLINRPPVPLFLHFLWLVF 539

Db 481 ELEDGLYTGTGPPAKIGELBLHCAVITYAMPIMYLINRPPVPLFLHFLWLVF 540

481 ELEDGLYTGTGPPAKIGELBLHCAVITYAMPIMYLINRPPVPLFLHFLWLVF 540

QY 540 CCRTMALAASAMPLTMSSFFCNALINSFYLTAGFMINLDNLIWIVAWIPTSKLSLURWCP 599

540 CCRTMALAASAMPLTMSSFFCNALINSFYLTAGFMINLDNLIWIVAWIPTSKLSLURWCP 599

Db 541 CCRIMALAALPPTMERSFSNALTSFVLAGFMINLDNLIWIVAWIPTSKLSLURWCP 600

541 CCRIMALAALPPTMERSFSNALTSFVLAGFMINLDNLIWIVAWIPTSKLSLURWCP 600

QY 600 SGIMQIQTNGHLYTQIQNFNTSILGDTMISANDLNHPLMAYLYVIGSISGFLMLY 659

600 SGIMQIQTNGHLYTQIQNFNTSILGDTMISANDLNHPLMAYLYVIGSISGFLMLY 659

Db 601 EGJMKIOPSRRTKMPGNLTTAVSGDKILSYMELDSYPLYAIYLIVIGLSSGGFWMLYY 660

601 EGJMKIOPSRRTKMPGNLTTAVSGDKILSYMELDSYPLYAIYLIVIGLSSGGFWMLYY 660

QY 650 SLKLTKOKSIQDW 672

650 SLKLTKOKSIQDW 672

Db 661 SLKLTKOKPSQDW 673

661 SLKLTKOKPSQDW 673

RESULT 4 US-10-15-378-9

; Sequence 9, Application US/10415378

; Publication No US20040014945A1

GENERAL INFORMATION:

APPLICANT: INCYTE CORPORATION; TANG, Y. Tom

APPLICANT: YUE, Henry; NGUYEN, Daniel B.; Elliott, Vicki S.; Publication No US20040014945A1

APPLICANT: HARALIA, Chandra S.; GIBTZEN, Kimberly J.; Publication No US20040014945A1

APPLICANT: LAL, Preeti G.; AZIMZI, Yalda; GENERAL INFORMATION:

APPLICANT: KHAN, Farrah A.; THANGAVELU, Karitha; APPLICANT: Kovalic, David K

APPLICANT: THORNTON, Michael B.; LU, Dyring Anna M.; APPLICANT: TRIBOURLET, Catherine M.; WARREN, Bridget A.; APPLICANT: ISON, H. Craig; DAS, Debopriya; APPLICANT: RADMANN, Brigitte E.; POLICKI, Jennifer L.; APPLICANT: KEARNEY, Liam

TITLE OF INVENTION: TRANSPORTERS AND ION CHANNELS

RESULT 5 US-10-424-599-175941

; Sequence 175941, Application US/10424599

; Publication No. US20040031072A1

GENERAL INFORMATION:

APPLICANT: La Rosa, Thomas J

APPLICANT: Zhou, Yihua

APPLICANT: Cao, Yongwei

APPLICANT: Soy Nucleic Acid Molecules and Other Molecules Associated With Title of Invention: Plants and Uses Thereof for Plant Improvement

FILE REFERENCE: 38-21(53223)B

CURRENT APPLICATION NUMBER: US/10/424,597
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 205684
SEQ ID NO: 175941
LENGTH: 725
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
NAME/KEY: unsure
LOCATION: (1)..(725)
OTHER INFORMATION: unsure at all Xaa 1cc
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT8847
US-10-424-599-175941

CURRENT APPLICATION NUMBER: US/10/424, 599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS.: 285584
SEQ ID NO: 175941
LENGTH: 725
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
FEATURE:
NAME/KEY: unsure
LOCATION: (1)..(725)
OTHER INFORMATION: unsure at all xaa locations
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_129893C.1.pep
US-10-424-599-175941

CURRENT FILING DATE: 2001-04-18
PRIOR APPLICATION NUMBER: US 60/198,465
PRIOR FILING DATE: 2000-04-18
PRIORITY NUMBER: US 60/204,234
PRIOR FILING DATE: 2000-05-15
NUMBER OF SEQ ID NOS: 45
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 652
TYPE: PRT
ORGANISM: Mus musculus
FEATURE:
OTHER INFORMATION: mouse sitosterolemia susceptibility gene (SSG)
OTHER INFORMATION: amino acid sequence
US-09-837,992-1

Query	Match	21.6%	Score	753;	DB	12;	Length	725;
Best Local Similarity	30.4%		Pred.	No.	1..6e-62;			
Local Similarity	182;	Conservative	121;	Mismatches	253;	Indices	42;	Gaps
QY	60	SOUFPFELQALQKIPMR-----SHSSDSCCEIGIRNUSFKVYESGOMIAIIGSGCGAS	113					
Db	61	AEPATPSGRKVTPVTIOWRNINCSLSDKSRSARPFILKVNSEGEAKPGRLLAIMGPGSSGKRT	120					
QY	114	IUDVITG-----RGHGKGKMSQOIWINGQCPSPOLVRKVCAVURQHQLLPULVREIL	167					
Db	121	LAVLAGQLTASPRH---LSGVLEFGKPGSKAYK--FAVYRQEELFFSOLVREIL	174					
QY	168	ARTAQMLPLPRTFSQARDKRDVERDEAELRLRCANTRVONTYRGVGERRVRSIVGOL	227					
Db	175	SLATELQLPNISSABERDEFVNMLFLKJGLVISGACDINTDOKRGISGEGEKLMACEL	234					
QY	228	LNPNGLILJLDEPTSGLDOSTPAHNMUTTSLRALKNRVLISLTOFRSDIFRLFPLVILANT	287					
Db	235	LASPSTVIADEPTGFLDAFQAQEVMTYQOLAOGGHTVICSIHQFRGSVISKFDIDLT	294					
QY	288	SGTPILYGLAQ_QMVOYFTSIGHCPPRSNPADYVDTLSIDRSKERVATEKAQSLA	346					
Db	295	ESELVYAGPARDPLAVYSKFGIQCPDHNPABTLADLISIDSSADSVTYSQRPTGLV	354					
QY	347	ALFLEVKVOGFDDFLWKAEEAKLNSTSHTVSLTLQDTCGTAVBLPGM_IBOFSTLIRQ	405					
Db	355	ESFSQR_QSAVIVATPITINDLSNRKKISQR----AWVKGVNUWKQFXLILKRA	405					
QY	406	ISIDPFDPLTILLHGSEACIMSLIGFLYGHGAKQKLSFMDTAALFLMFTGALIPPNVILD	465					
Db	406	WWQALSRDAPTKYKPRMSIASATIIFGSVFWRMGNQTSIDRMGJLQVTAINTAMALTX	465					
QY	466	VNSKQHSRSMLYVELEDGYTAGPFYFAMILGPMPEHAYVILYAMPITWLWLRPVPE	525					
Db	466	TWVSPVKPERAIVDRERAKAQSYSLGPFYLFSKLAEPIGAFFPMGAVKIPMARHPMTQ	525					
QY	526	LFLKHFLLVWLVFCRTMIALAASAMLPTPHMSS_PFCNAIYNSTVLTAGMINDLNLWV	585					
Db	526	RFGKFCGIVTMESTAAASAMGLTVWAMPTTEAMAVGSPSLMTVTFUGGTYVNPNTRII	585					
QY	586	PANTSKLSLRLWCSTGSGIMQTOFNG-----HYLYTQIG-----NFTSILGDTMIS	630					
Db	586	FRWNPVNPNSLIRMAFOGGLSINEPFGSLQFDHQHSFDIQTGEALERISFGKSRIRDVIA	643					

Query	Match	20.1%	Score	701.5	DB	9	Length	652;	
Best Local Similarity		29.1%	Pred.	No.	1.1e-57;				
Matches	194;	Conservative	131;	Mismatches	245;	Indices	97;	Caps	19;
QY	24	QPSLSESESDS--IYFTISGQSNTILEVRDITYQDIAQV-PNEQLAQFKTPWRSHS	79						
Db	27	QGSVTEARHSLSIGVLRVSY-----VSNRGVPM-----WNIKS	60						
OY	80	SOPSCELGI-RNLSSFKRSQMLATIGSSCGRASLDVITGRGRGKMSGOIWINQG	138						
Db	61	CQQKKWKRQILKDVSIVIESGQIMCINGSSGKTTIDATSGRLRRTGTGBEVFNGCE	120						
OY	139	STPQLYRKCVAVHVRQHDQDLNLTETELAFIAQMLPRITSQAQZDKRVEDVIAEIRUR	198						
Db	121	LRRDQRQDCPSVYLQSDVFLSLTVERTRTAMALCRS-SADFNKKVERAUMTHLS	179						
OY	199	QCANTRIVGTYRGVAGGERARVSIQVLLNNPGNIDDEPSGLSNSPTAHLVTFDSRL	258						
Db	180	HYDAMIGSYNFGGIGSERRVSIQAQLQDPKVMIDEPBTGULCMQVQVLLJAEI	239						
OY	259	AKGRNRULLISHQOPRADIFRFDLVLMSTSTPIYGAAQOQNQVYTISIGHCPYRSNP	318						
Db	240	ARRDRIVTVTHQPRSLBFORFDKIALTYGELVFCOTPEMIGFFNNCGPCPERSNP	299						
OY	319	DYVUDLTSIDRSKEREVATEKAQSLAALFELEYKGQGDFDLWKAKELEMNSTHTVSLT	378						
Db	300	DYFLMDSVDTQSRBIEYTERRVOMLCFAKE---SDIVHKI-LENIARYRKLTP	353						
OY	379	L---TQTDCCGPAVELPGLMEOFSTLIRROIISNDPDLPLIILKSEACMSLILG	432						
Db	354	WVPPKTKDP-----PGMFKLGYLIRRVRVNMRNMQAVIMRVQVNLQINGFLFYL	405						
OY	433	LYVGHGKQKLSMENDTAALFMIGALIPNVILDVVKRSERSMLYVELEDGLYTAGPYF	492						
Db	406	DRVQNTLKGAVODRVLILYQVGAQPTGMINAVNLFPMLAVSDQESQDLYHKNQML	465						
OY	493	FAKILGELPERCHVVIYAMPYWLNURPVPELF-----LL-IHFLWVWVFCCRM	544						
Db	466	LAVYTHVLPFSVATIVPFSVSSCYWTGLYPEVARFGYFSAAALAPHLGEFL-----TL	519						
OY	545	ALLASAMPLPHNSSSFRMAMINSFVJAGEMNLDQMVWAKISLUSFLRWCPGSMQ	604						
Db	520	VLLGIVQVPNIT-VNSIVALLSISGLLIGSGFRNIOEMPIMPKILGFPTQKYCCELIV	578						
OY	605	IOPNGHLYTTQGCFNTFSILGDTMISANDLNHHPYLATILIVIGSY-----	651						
Db	570	FPO NEVUCL-----NPTCGSNSM-----HPMC----TQGVOFTEKTCPGATSRFT	522						

; GENERAL INFORMATION:
; APPLICANT: Robbs, Helen H.
; APPLICANT: Shan, Bei
; APPLICANT: Barnes, Robert
; APPLICANT: Tuan, Hui
; APPLICANT: Board of Regents, The University of Texas System
; TITLE OF INVENTION: ABCG5 and ABCG8: Compositions and Methods of Use
; FILE REFERENCE: 018781-007320US
; CURRENT APPLICATION NUMBER: US/09/989, 981A
; CURRENT FILING DATE: 2002-07-23
; PRIORITY APPLICATION NUMBER: US 60/252, 235
; PRIORITY FILING DATE: 2000-11-20
; PRIORITY APPLICATION NUMBER: US 60/253, 645
; PRIORITY FILING DATE: 2000-11-28
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 652
; TYPE: PRT
; ORGANISM: Mus musculus
; FEATURE:
; OTHER INFORMATION: mouse ABCG5 (mABCG5)
; US-09-989-981a-2

Query Match 20.1%; Score 701.5; DB 10; Length 652;
Best Local Similarity 29.1%; Pred. No. 1.1e-57;
Matches 194; Conservative 131; Mismatches 245; Indels 97; Gaps 19;

Qy 24 QDSLSSRSBDSN--LYFTYQSNSTLEVRDLYQDIASQV-PWFEQLAQPKLPRWSHS 79
Db 27 QSVTGTEBARRHLGVHVSYS-----VSNGPWN-----RNIKS 60

Qy 80 SODSCELGI-RNLUSFKYRGSGMALLIGSSGRASLIDVTRGRHGKMKSGOIWINGQD 138
Db 61 COOKWDQILKOVSLVIESGQIMCIGTGGSGKTTDAISGRURRTGTILEGEVFVNCE 120

Qy 139 SPDPOLVERKCVASYRHQDQHQLNUTRETLIAQMLPRPSQKQDKEVDRDVAELLR 198
Db 121 LRDQDFOCFSVYLQSDVFLSISLTVERTRLYTAMLAICRS-SADFYNKKVAEWTLS 179

Qy 199 QCANTRGTNTYRGSGGERRVSGVQWLMNGPGLLDEPTSCSDSFRAHNWTTSR 258
Db 180 HYADOMIGSYNFQGGSISGERRVSIQALQDQPKVMDPFTGQDMCTANQVILLABL 239

Qy 259 AKGNRULVLSHQPREDFRPLDVULMTSCTPIVGAGAQMVQYFTSGHGRPRYNSA 318
Db 240 ARDRITIVTHTHPRSLEFHDKIATYBLVCPGTFPRMLGPENNGYPCPBHNSP 299

Qy 319 DFDVUDTSIDRASKERKEVATEKAQSLALLEKVOQGDDFLWKABAKSLNSTHTVLT 378
Db 300 DRYNDLSPVDSRERBIETYRVOMLECAKE----SDVYK---LENTERARYKLIP 353

Qy 379 L---TQTDGTAPELPGMMEQFSTIRROISNDFRDPLTLLINGSEACMSLIIIG-- 432
Db 354 WPFKTKDP-----PGMGKLGVLRRTRNMRNQKAPVNLWQMLMGFLITYL 405

Qy 433 LYVGHAKQSLMDTAUFLFPMGALLPVNLVSKHRSRSMVYEDGLUTAGYPF 492
Db 406 LRVONNTLKGAVTQDVGULYIYDNGAPYTMGMINAVNLPMRARSQDSQDGLHVKWQML 465

Qy 493 FAXTGLGELPERCAYVITYAMPYIWLNRPVPELF-----LL--HFLTVWLVVFCRM 514
Db 456 LAVLHVLPPEVATIVFESSVQYNGLYPVAREGYFSAALLPHLIGE-----TL 519

Qy 312 PRYSNPAFDYVLDTSIDRASKERKEVATEKAQSLALLEKVOQDFDDFLWKAEAKLNTS 371
Db 292 DEHSNPFDFMDLTSVDOSKERIEITSGRVQMSIESAVKSA----ICHKLNIRM 345

Qy 372 THVTSTL-----TQTDGTAPELPGMMEQFSTIRROISNDFRDPLTLLINGSEACMS 427
Db 346 KHLKILPMPFPKTKOS-----PGVFSKIGLJYRTRVNLVANKLAVITRLQNLIM 397

Qy 428 LTIGFLYXGKGAKQ-----SENDTALELMFGLIPNVLIDWVSKHRSRSMLYELDGL 485
Db 398 LFLLFLVVRFRSNVKGAIQDPRVGLYIQRVGAATPYGMANAVNLPPVLRVSDQESQGL 457

Qy 486 YTAGPVFFAKULGELPERCAYVITYAMPYIWLNRPVPELF-----LL--HFLTVWLV 537
Db 458 YQWQMMALAYLHVLPFSVVATMIFSVCVWYTGILHPEVARFGYFSAAALLPHLIGEPL- 516

Query Match 19.9%; Score 697; DB 9; Length 651;
Best Local Similarity 29.1%; Pred. No. 3.1e-57;
Matches 195; Conservative 129; Mismatches 263; Indels 84; Gaps 18;

Qy 17 LODASQLOSL---FSSSDNSLYFTSQSNSVLEVDLYQDIASQVPAFQEAQKF 72
Db 15 LQVNRSQSSDSCELGIRNFSKRSQGOMAIIIGSSGCRGKMSQ 131

Qy 73 IFWRSHSSDSCELGIRNFSKRSQGOMAIIIGSSGCRGKMSQ 131
Db 62 QOWTQI-----LKDSLVLYSGQNCIGLSSGSKRTTLDAMSGRGRGATPFLIGE 112

Qy 132 IWINGOPSTPOLVRCVAMHRQDQHQLNUTRETLIAQMLPRPSQDFTGQD 191
Db 113 VYVNGARLRRBFQDFCSVYLQSDTLLSLSLTVESTHTYLTALLI-RKGNPGFQKVEA 171

Qy 192 TAELRURQCANTRVNTYRGSGGERRVSGVQWLMNGPGLLDEPTGQDFTGQD 251
Db 172 MAELSHVADRLIGNYSLGGISOTERRVSIQALQDQPKVMDPFTGQDFTGQD 231

Qy 252 VITLRLAKGNRVLVTSQDPSRDFRPLDVLVMTSCTPIVGAGAQMVQYFTSGHGRPR 311
Db 232 VVLLVLAERARIVVLTIPRSELQFDKIALSFELIFGCTPAEMLDFFDCGYP 291

Qy 312 PRYSNPAFDYVLDTSIDRASKERKEVATEKAQSLALLEKVOQDFDDFLWKAEAKLNTS 371
Db 292 DEHSNPFDFMDLTSVDOSKERIEITSGRVQMSIESAVKSA----ICHKLNIRM 345

Qy 372 THVTSTL-----TQTDGTAPELPGMMEQFSTIRROISNDFRDPLTLLINGSEACMS 427
Db 346 KHLKILPMPFPKTKOS-----PGVFSKIGLJYRTRVNLVANKLAVITRLQNLIM 397

Qy 428 LTIGFLYXGKGAKQ-----SENDTALELMFGLIPNVLIDWVSKHRSRSMLYELDGL 485
Db 398 LFLLFLVVRFRSNVKGAIQDPRVGLYIQRVGAATPYGMANAVNLPPVLRVSDQESQGL 457

Qy 486 YTAGPVFFAKULGELPERCAYVITYAMPYIWLNRPVPELF-----LL--HFLTVWLV 537
Db 458 YQWQMMALAYLHVLPFSVVATMIFSVCVWYTGILHPEVARFGYFSAAALLPHLIGEPL- 516

Query Match 19.9%; Score 697; DB 9; Length 651;
Best Local Similarity 29.1%; Pred. No. 3.1e-57;
Matches 195; Conservative 129; Mismatches 263; Indels 84; Gaps 18;

Qy 17 LODASQLOSL---FSSSDNSLYFTSQSNSVLEVDLYQDIASQVPAFQEAQKF 72
Db 15 LQVNRSQSSDSCELGIRNFSKRSQGOMAIIIGSSGCRGKMSQ 131

Qy 73 IFWRSHSSDSCELGIRNFSKRSQGOMAIIIGSSGCRGKMSQ 131
Db 62 QOWTQI-----LKDSLVLYSGQNCIGLSSGSKRTTLDAMSGRGRGATPFLIGE 112

Qy 132 IWINGOPSTPOLVRCVAMHRQDQHQLNUTRETLIAQMLPRPSQDFTGQD 191
Db 113 VYVNGARLRRBFQDFCSVYLQSDTLLSLSLTVESTHTYLTALLI-RKGNPGFQKVEA 171

Qy 192 TAELRURQCANTRVNTYRGSGGERRVSGVQWLMNGPGLLDEPTGQDFTGQD 251
Db 172 MAELSHVADRLIGNYSLGGISOTERRVSIQALQDQPKVMDPFTGQDFTGQD 231

Qy 252 VITLRLAKGNRVLVTSQDPSRDFRPLDVLVMTSCTPIVGAGAQMVQYFTSGHGRPR 311
Db 232 VVLLVLAERARIVVLTIPRSELQFDKIALSFELIFGCTPAEMLDFFDCGYP 291

Qy 312 PRYSNPAFDYVLDTSIDRASKERKEVATEKAQSLALLEKVOQDFDDFLWKAEAKLNTS 371
Db 292 DEHSNPFDFMDLTSVDOSKERIEITSGRVQMSIESAVKSA----ICHKLNIRM 345

Qy 372 THVTSTL-----TQTDGTAPELPGMMEQFSTIRROISNDFRDPLTLLINGSEACMS 427
Db 346 KHLKILPMPFPKTKOS-----PGVFSKIGLJYRTRVNLVANKLAVITRLQNLIM 397

Qy 428 LTIGFLYXGKGAKQ-----SENDTALELMFGLIPNVLIDWVSKHRSRSMLYELDGL 485
Db 398 LFLLFLVVRFRSNVKGAIQDPRVGLYIQRVGAATPYGMANAVNLPPVLRVSDQESQGL 457

Qy 486 YTAGPVFFAKULGELPERCAYVITYAMPYIWLNRPVPELF-----LL--HFLTVWLV 537
Db 458 YQWQMMALAYLHVLPFSVVATMIFSVCVWYTGILHPEVARFGYFSAAALLPHLIGEPL- 516

Db 346 KHLKTLPMVPPFKTKDS-----PGVFSKUGVLLRVRTRNLVRNKLAVITRLQNLING 397
 Qy 428 LIQFLIYHGAKQ---SFRMOTAALEFMIGLIPENWILDTVSCKCISERSMLYYELEDGL 485
 Db 398 LFLLPFVVRVRSVLUKGAIQDRVLGXQFVGATPYGMNAVNLPVLRASVSDQESQDGL 457
 Qy 598 CPGSLMIOFGNHLTYTQIGNTFSTLGDTM-----ISANDLNHPLY 640
 Db 571 CSEILVNBFFYGLNFT--CGSSNVSVTNPMACTQIQIEKTCGATSRFTMNFLY 628
 Qy 641 AIY--LIVGI 649
 Db 629 SFIPALVINGI 639

RESULT 9
 US-09-989-981a-6
 ; Sequence 6, Application US/0989981A.
 ; Publication No. US2003049730A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Hobbs, Helen H.
 ; APPLICANT: Shan, Bei
 ; APPLICANT: Barnes, Robert
 ; APPLICANT: Tian, Rui
 ; APPLICANT: Tulrik, Inc.
 ; APPLICANT: Board of Regents, The University of Texas System
 ; TITLE OF INVENTION: ABCG5 and ABCG8: Compositions and Methods of Use
 ; FILE REFERENCE: 018781-00730B
 ; CURRENT APPLICATION NUMBER: US/09-989, 981A
 ; CURRENT FILING DATE: 2002-07-23
 ; PRIOR APPLICATION NUMBER: US 60/252, 235
 ; PRIOR FILING DATE: 2000-11-20
 ; PRIOR APPLICATION NUMBER: US 60/253, 645
 ; PRIOR FILING DATE: 2000-11-28
 ; NUMBER OF SEQ ID NOS: 13
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO: 6
 ; LENGTH: 651
 ; TYPE: PRT
 ; FEATURE:
 ; ORGANISM: Homo sapiens
 ; OTHER INFORMATION: human ABCG5 (hABCG5)
 ; US-09-989-981a-6

Query Match 19.9%; Score 697; DB 10; Length 651;
 Best Local Similarity 29.1%; Pred. No. 3.1e-57; Mismatches 263; Indels 84; Gaps 18;
 Matches 195; conservative 129; Mismatches 263; Indels 84; Gaps 18;

Db 17 LQDASGLQSLI----FSSESDNSLYFTYQSGQSNTELEVRLTYQDIAQSVPWFEBQLQFK 72
 Qy 15 LQVNRRGSQSSLEGAPATAPEPHSLSGITLHASYSVSHVR-----PWNID-ITS CR 61

Db 73 IPWRSHSSQDSCELGRNLTRNLSPKVRSQMLAIGSSGCGASLIVITGR-GHGGKMSQ 131
 Qy 62 QQWTQI-----LKDVSLYVESQQMCILGSSGSKTLLDAMSGLRAGTF-LGE 112
 Db 132 IWTNGQSTPQLVRKVVAHYRQHDOLPLNJTRETLAFAQMRLPRTFSQARDKRVEDV 191
 Qy 113 WVNGRARRRQQFQCSYVQDTSUSSVTVRETHYALLA-RRGPGPSFKKVAV 171
 Db 192 IABLRUROCANTRVGVYVRCGERRSIGVOLLWPGMLDEPTSGLSDFTAHU 251
 Qy 172 MABLISLHVADRLIGHTYLGGSISTGERRVRIAQOLQDPKVMDFEPPTGDCMTAQI 231
 Db 252 VITLSLRAKGMLVLSIHQRSDFLRFDLWLMSTGTPYLGAQMQYQFTSIGHC 311
 Qy 192 TABLRUROCANTRVGVYVRCGERRSIGVOLLWPGMLDEPTSGLSDFTAHU 251
 Db 172 MABLISLHVADRLIGHTYLGGSISTGERRVRIAQOLQDPKVMDFEPPTGDCMTAQI 231
 Db 252 VITLSLRAKGMLVLSIHQRSDFLRFDLWLMSTGTPYLGAQMQYQFTSIGHC 311
 Qy 232 VVLLVELARRRIVVLTITHOPSELFQFDKTAISLFGELIFCGPAEMDFFNDGFC 291
 Db 312 PRYSNADPYDFTSISDRRSERERAVEVKQOSLAFLFLKVOQGDDFLWKAKEBLNTS 371
 Qy 292 PRHSNPEDPYDFTSISDVTQSKERETSKRKVOMIESAYKSA----ICKTKNIERM 345
 Db 372 THVTSIL---TQDPCGTAVELPGMIEQSTLIRROISUDFRLPHTLHGSRCLMS 427
 Qy 345 KHLKTLPMVPPFKTKDS-----PGVFSKUGVLLRVRTRNLVRNKLAVITRLQNLING 397

RESULT 11
US-09-866-866A-14
; Sequence 14, Application US/09866866A
; Patent No. US2002010244A1
; GENERAL INFORMATION:
; APPLICANT: Sorrentino, Brian
; TITLE OF INVENTION: A Method of Identifying and/or Isolating Stem Cells
; FILE REFERENCE: 1340-1-212ICP2
; CURRENT APPLICATION NUMBER: US/09/866, 866A
; PRIOR APPLICATION NUMBER: 09/584, 586
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: PCT/US99/11825
; PRIOR FILING DATE: 1999-05-27
; PRIOR APPLICATION NUMBER: 60/086, 988
; PRIOR FILING DATE: 1998-05-28
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patentin version 3.0
; SEQ ID NO: 14
; LENGTH: 657
; TYPE: PRT
; ORGANISM: Mus musculus

Query Match 19.2%; Score 672.5; DB 9; Length 657;
Best Local Similarity 27.2%; Pred. No. 6.9e-55;
Matches 176; Conservative 136; Mismatches 241; Indels 93; Gaps 16;

Db 335 FYNSAIYGETKAELD----QLQGAEKKGTSARKEPVNTSPCHQRLWARRSFQN 388
Qy 428 LIIGLYLYGGAKOL--SPMDTALLFMIGALIPNVLIDWVSKCHSRSRSMYBLEDGL 485
Db 398 LFLPFVFLVERSNVTLKGATODRVGLYQFGAATPYGMLNAVNLFVTRAVSDQSQGL 457
Qy 486 YTAGPYFFKMKILGELPEHCAVVIYAMPIWLTNRVPELF----LI--HEFLVNLV 537
Db 458 YOKQOMMIALYAHVLPFSVATMIFSSCYWTGLRHEVARFGYSAALLAFLHGEFL- 516
Qy 538 VFCGCRMTAASAMLPHTPMSISPCNALYNSTFITAERMINDNLUWPAWISKSFLRN 597
Db 517 ----TIVLIGIVONPNT-WNISVWALLSIAGLUGVGSFLRNQEMIPPKKISYTFQY 570
Qy 598 CFSGMQLOFNGHLYTTOIGNFTFSIQLDM-----ISMDANSHPLY 640
Db 571 CSEBLVNEFGINFT--CGSSNVSVTNPMAFTGSIQFBEKTCPGATSFNFMLIY 628
Qy 641 AIY--LIVGI 649
Db 629 SFIPALVILGI 639

RESULT 12
US-09-981-353-35
; Sequence 35, Application US/09981353
; Patent No. US20020160382A1
; GENERAL INFORMATION:
; APPLICANT: Lasek, Amy W.
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
; FILE REFERENCE: PA-0038 US
; CURRENT APPLICATION NUMBER: US/09/981,353
; CURRENT FILING DATE: 2001-10-11
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PERL program
; SEQ ID NO: 35
; LENGTH: 655
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. US20020160382A1 5517972CD1.
US-09-981-353-35

Query Match 18.9%; Score 659.5; DB 9; Length 655;
Best Local Similarity 27.2%; Pred. No. 1.2e-53;
Matches 185; Conservative 141; Mismatches 270; Indels 85; Gaps 21;

Db 20 FSSESDNSL-YFTYSGSNTLEEVRLTYDIAQWPWNEBQLAQFKIPWRSHSQDCEL 86
Qy 91 LSF-----KTRSGQMI-----AIGSSCCGRASSLDVITGRG 122
Db 123 HGGKOKSGQIWINQSPSTPOLVKCAHVROHDQLPNITRETTAFAIQMQLRTFSQA 182
Db 96 KDRKGLSGDIYLNGAPQ-PAHKCCGSSYVQDWDGMLTTRTENQFSALRLLPMTKH 154
Qy 163 QDRKREVVAEILRQLQANTRGVTYRGSGGERRSVAGQJLWNPGSLIDEPSG 242
Db 155 EKBRINTIKELGLERKVADSKRGTOIRGSGGERKTSQGMELITDLSILFDEPTG 214
Db 243 LDSPTAHLVITLUSLRAKGNTVLSAQPSDIFRLDVLUMTMSGTPYLGAAQWQ 302
Qy 215 LDSTANAVLULKRMKGSKQTIFSHOPPYSIFCLFDSTTLASGKUVRGENQKAE 274
Db 303 YFTSIGHCPYRVSNPADFYDNT-----IDRSKEREVATVKAQSLAFLPEVKOG 355
Db 275 YFASAGTCPPNPAFPFLVINGDSSAVMLREPQNEAKNKEPSKCKEPKTIENSE 334
Qy 356 F-DDFLWKAEEAKLNTSTHVTSLTQDTHGTAVELPGMIEQSTLRRQINDFRL 413

Db 335 FYNSAIYGETKAELD----QLQGAEKKGTSARKEPVNTSPCHQRLWARRSFQN 388
Qy 414 -----PTLJHGSEACIMSLITGFIYGGAKOLSMEDTAALLFMIGALIPNVLID 465
Db 389 LGNPQASVQALIV----TVLGLIGIAYFLKDIAQMGNRAGVLF----- 433
Qy 466 VWSKCHS-----ERSMLYLYLEDGIXYTAQPFKAFMGL-S-PEPCAYVIIYAMP 514
Db 434 TINQCFSSSVSAVELFWEKKIFIHYTISGYTVRSYFFGKMSDLPLPSPVIFTG 493
Qy 515 YNLTNLRPPVPEFLFLMFLWVFCRTKALAASAMLPTHMSSFFCNALYNSTFTAG 574
Db 494 YEMUGLKKTVDAFFMMFTLINVAYTASSMALATGOSVSVATLMTIAFVMMFLRG 553
Qy 575 FMNLDNL--WVPAFTISKISFLRNCFSGQWQIQPNGHLY-----TTQIGNFIFI 623
Db 554 LUVRNRPWNL-SWLQYFSIPRYGFTALQYNEFLGOFCPGPNTVDNSTCVNSVACIT 611
Qy 624 LGDTMS-AMDLNHSIYAYLIVIGISYKSFPLYLISKLIKOS 668
Db 612 GNEYTLINGIELBUPGJWKNHVALACMITLFTIAVLKLFKYS 657

11.9 CNSGVVODDVWMTLTVRENLOFSALRATTWNHNERINRVICELGDKWADSKV 178
Db 206 GNTYVRGVGGGERVSVIQLWNGILLDETSGLDSTFARNLVTLSRAGNRV 265
Db 179 GTOFRGVSGERERKRTSIGMELITDPSILFLDEBTGTGLDSSTANAVLLKRMKGRTI 238
Db 265 LISLHQPSDIFRLFDLVLMTSGTPIYGAQAOQNQVTSIGHCPYRSPNPAFFYDLT 325
Db 239 IFSHQPRYSIRKFEDSLLASGRMLFGPAGQALGYESAGHCAYNNPADDLII 298
Db 299 NGDSTAVALREEDFKAETIEBPSKDPLIEKLAIVN---SSFYKETKELHOLS 353
Qy 326 SIDRS-----KEREVATVEK---AOSLAALFLEKVQGDDFL--WKAKELN 369
Db 320 TSTHTVSLTLDQDGTAPELPGMIEQSTLIRQISUNDRDLPTLILHGSEACMSLI 429
Db 354 GGEKKKKITVKEISYTS---FCHOLRWKSFSKPNLGNPOASIAQIIVTVVGLV 408
Db 430 IGFPLYGHGAKQLSFMDTAALEFMIGALIPPNVILDVSKHS-----ERSMLY 479
Db 409 IGAIYFGKLNDSTGIONRAGULFEL-----TINOCCFSYSAVELFVVKLFH 457
Db 480 ELEDGLYTACPYFAKILG-LPEHCAVVIYAMPIYWLTRPVPELFLHFLVWLV 538
Db 458 BYISGYRYVSSYFLGKILSDLPMLPMLPSIFTCTIVFMLGLKPKADAFFVMMFTIMVA 517
Qy 539 FCCRTMALAASSMLPFTHMSFFCIALYNSPYLTAGFMINDNL-WIVPWISKUSFLR 596
Qy 518 YSASSMALATAQGSVSVSATLMLTCFVNMIFFGILVNLTIASWL-SWLOQFSI PR 575
Qy 597 WCFSGLMQIQPENGHLYTQIG----NFTSILGDTMI-SAMDLNSHLYATLVI 647
Db 576 YGFTALQHNEFLGQNCPCGMINATGNNPCNYA-TCTGEEBLVKQGIDLSPWGLWKHVALA 634
Qy 648 GISYGFLFLYLYSLIKIKQS 668
Db 635 CMIVIPLTIAVLLKPLKKS 655

RESULT 15
US-09-911-086-1
; Sequence 1: Application US/09961086
; Publication No. US2003003645A1
; GENERAL INFORMATION:
; APPLICANT: UNIVERSITY OF MARYLAND, BALTIMORE
; APPLICANT: ROSS, Douglas D.
; APPLICANT: DOYLE, L. Austin
; APPLICANT: ABRIZZO, Lynne
; TITLE OF INVENTION: BREAST CANCER RESISTANCE PROTEIN (BCRP) AND THE DNA
; CURRENT APPLICATION NUMBER: US/09/951,086
; FILE REFERENCE: EP19376-019
; CURRENT FILING DATE: 2001-09-21
; PRIOR APPLICATION NUMBER: US 60/073,763
; PRIOR FILING DATE: 1998-02-05
; PRIOR APPLICATION NUMBER: PCT/US99/12577
; PRIOR FILING DATE: 1999-02-05
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 655
; TYPE: PRT
; ORGANISM: Homo sapiens

87 GIRNUFSKVRGGOMAIIIGSSGCGRASLWDVITGRHHGKMKSGQIWINGQSPTFQLVRK 146
Db 64 -LSNINGIMKRG-MALIGPTGKERSLSDVLLAARBDPSI-SGUVLNGAPRPAF-K 118
Db 147 C-VATVQRHDOLLENLTVERTTLAQMURRTTFSQAQDRKRDVEDVIAELRQCANTRV 205
Db 119 CNSGVVODDVWMTLTVRENLOFSALRATTWNHNERINRVICELGDKWADSKV 178
Db 206 GNTYVRGVGGGERERKRTSIGMELITDPSILFLDEBTGTGLDSSTANAVLLKRMKGRTI 238
Db 179 GTOFRGVSGERERKRTSIGMELITDPSILFLDEBTGTGLDSSTANAVLLKRMKGRTI 238
Db 265 LISLHQPSDIFRLFDLVLMTSGTPIYGAQAOQNQVTSIGHCPYRSPNPAFFYDLT 325
Db 239 IFSHQPRYSIRKFEDSLLASGRMLFGPAGQALGYESAGHCAYNNPADDLII 298
Db 299 NGDSTAVALREEDFKAETIEBPSKDPLIEKLAIVN---SSFYKETKELHOLS 353
Qy 326 SIDRS-----KEREVATVEK---AOSLAALFLEKVQGDDFL--WKAKELN 369
Db 320 TSTHTVSLTLDQDGTAPELPGMIEQSTLIRQISUNDRDLPTLILHGSEACMSLI 429
Db 354 GGEKKKKITVKEISYTS---FCHOLRWKSFSKPNLGNPOASIAQIIVTVVGLV 408
Db 430 IGFPLYGHGAKQLSFMDTAALEFMIGALIPPNVILDVSKHS-----ERSMLY 479
Db 409 IGAIYFGKLNDSTGIONRAGULFEL-----TINOCCFSYSAVELFVVKLFH 457
Db 480 ELEDGLYTACPYFAKILG-LPEHCAVVIYAMPIYWLTRPVPELFLHFLVWLV 538
Db 458 BYISGYRYVSSYFLGKILSDLPMLPMLPSIFTCTIVFMLGLKPKADAFFVMMFTIMVA 517
Qy 539 FCCRTMALAASSMLPFTHMSFFCIALYNSPYLTAGFMINDNL-WIVPWISKUSFLR 596
Qy 518 YSASSMALATAQGSVSVSATLMLTCFVNMIFFGILVNLTIASWL-SWLOQFSI PR 575
Qy 597 WCFSGLMQIQPENGHLYTQIG----NFTSILGDTMI-SAMDLNSHLYATLVI 647
Db 576 YGFTALQHNEFLGQNCPCGMINATGNNPCNYA-TCTGEEBLVKQGIDLSPWGLWKHVALA 634
Qy 648 GISYGFLFLYLYSLIKIKQS 668
Db 635 CMIVIPLTIAVLLKPLKKS 655

Search completed: March 17, 2004, 19:53:50
Job time : 27.8852 secs